

Abstract

A method and a device for state sensing of a technical system (1), particularly an energy store, are described in which performance quantities (x) are measured and supplied to a state estimation routine (3), which determines the state variables (a) characterizing the current system state using a model based on system-dependent model parameters (p) and the measured performance quantities (x). To improve this state estimation, the measured performance quantities (x) may additionally be supplied to a parameter estimation routine (4), which performs a use-dependent determination of the model parameters (p). In order to increase the quality of the estimation and also reduce the calculating time and the memory requirements, it is suggested that a selection of state variables (a) and/or parameters (p) to be determined by estimation be performed depending on the dynamic response of the measured performance quantities (x).

(Figure 1A)